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24
IMPROVED

HYDROSTATIC BEDS

OR

From 8014.61
211.054
Feb. 14, 1877
Invalid Mattresses and Cushions

FOR PLACING ON AN ORDINARY BEDSTEAD.

THE WIDTH OF THE BED SHOULD BE STATED
WHEN ORDERED.

INVENTOR AND SOLE MANUFACTURER,

WILLIAM HOOPER,

Operative Chemist,

7, PALL MALL EAST, AND 55, GROSVENOR STREET,
LONDON. Patent Room 19.13

Orders by Telegraph or otherwise immediately attended to.

*Extract of Reports from the Medical Department of the Three Presidencies
of the Hon. East India Company; also Reports and Letters from
the following Members of the Medical Profession:*

BAINBRIGGE.
BUCKNILL.
DUNDAS.
GREENHALGH.
HAKE.
HAWKINS.

ILES.
JACKSON.
JONES.
LE GROS CLARK.
LORD.
MANSELL.

PEREIRA.
STUBBS.
THORN.
WALL.
WEAVER.
WILLIAMS.

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LONDON:

WILLIAM HOOPER,

7, PALL MALL EAST, AND 55, GROSVENOR STREET.

1856.

MR. HOOPER'S

INVALID CUSHIONS AND MATTRESSES, OR WATER BEDS.

7, Pall Mall East, and 55, Grosvenor Street, London.

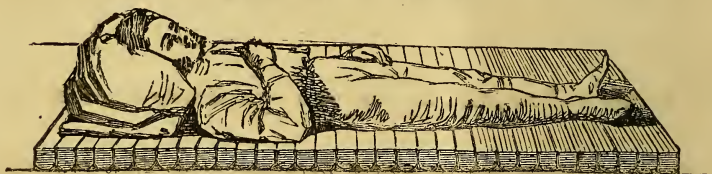
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LIBRARY

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22.Q.1856.1



Cushion for general purposes.



Full-length Invalid Mattress, or Hydrostatic Bed.

Greatly preferable to the original costly and cumbersome Water Bed.

The above are simply to be placed on an ordinary Bedstead.

For, Asthenic Gangrene.

Bedsores.

Cancer.

Cholera.

Coldness of the Body.

Consumptive Cases.

Diseased Joints.

Dropsy.

Fevers.

Fractures, Simple or Compound.

Gout.

For, Gun-shot Wounds.

Hip Complaints.

Lassitude.

Paralysis.

Rheumatism.

Spasms.

Spinal Affections.

Sloughing Sores.

Typhus Fevers.

Ulcerated Cartilages.

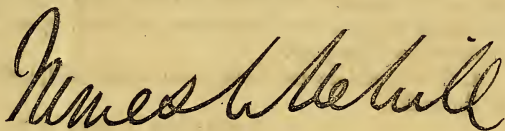
And all Invalids.

EXTRACT OF REPORT FROM THE HON. EAST INDIA COMPANY,
BOMBAY.

EAST INDIA HOUSE, 3rd November.

SIR,—With reference to your letter of the 24th ultimo, I am desired to forward herewith a copy of the Reports recently received from the Government of Bombay relating to your Invalid Mattresses and Cushions, and to state that a copy of the Reports from Bengal and Madras, when received, will be also sent to you.

I am, Sir, your most obedient humble servant,



MR. WILLIAM HOOPER.

No. 1895 of 1854.

*From the Secretary to the Medical Board to the Secretary to
Government Military Department.*

11th August.

SIR,—In acknowledgment of the receipt of your letter (No. 2529) of the 8th instant, with accompaniments, I have the honour, by direction of the Medical Board, to report that “Hooper’s Invalid Water Beds, or Mattresses and Cushions” alluded to in the Honourable Court’s letter, No. 39, were received by the Medical Storekeeper of this Presidency in January last.

From the opinions expressed by the Medical Officers (copies of whose reports are appended) who had found opportunities of testing the efficiency of Hooper’s Hydrostatic Beds or Mattresses, &c., the Medical Board were satisfied of their usefulness, AND OF THEIR SUPERIORITY OVER ARNOTT’S WATER BED. They have in consequence decided on no longer making requisitions for the latter, but have included a supply of “Mr. Hooper’s Water Mattresses and Cushions” in the Indent about to be transmitted to the Honourable Court.

I have the honour to be, &c.,
Bombay Medical Board Office, Assistant Surgeon, Sec. Medical Board.
11th of August.

No. 66.

*To the Superintending Surgeon, Presidency Division and
Indian Army.*

SIR,—I have the honour to acknowledge the receipt of your memorandum (No. 849), dated the 13th instant, and accompani-

ments from the Medical Board, calling for a Report on "Hooper's Water Mattresses and Cushions."

2. In reply, I beg to state that these Water Mattresses and Cushions have been used in a variety of cases, both Medical and Surgical, and with great advantage and comfort to the patients.

3. *The Mattresses I consider better adapted in all respects for Hospital purposes than Arnott's Hydrostatic Beds; they are much more easily filled and ready for use, and from their great elasticity, they maintain a very equable pressure; they are also less liable to get out of repair. They are of three sizes; but I think it would be desirable to procure Mattresses of the largest size only, as they answer every purpose.*

4. The Cushions have also been much used, and with great benefit to the sick.

I have the honour to be, &c.,

European General Hospital,
Bombay, 18th July.

JAMES BOYD,
Superintending Surgeon, P.D. and I.N.

M. STOVELL,

Surgeon European General Hospital.

*To the Superintending Surgeon, Presidency Division and
Indian Navy.*

SIR,—With reference to Medical Board's Circular (No. 74), communicated in yours (No. 47), I have the honour to report that I have used *Hooper's Water Mattresses and Cushions in several cases, and that I have found them answer very satisfactorily.*

The materials of which these Mattresses and Cushions are made appear to be very durable, even in this climate; none of those which have been in use for the last six months have afforded any sign of deterioration.

I have the honour to be, &c.,

Bombay, July 11th.

JAMES BOYD,
Superintending Surgeon, P.D. and I.N.

A. H. LEITH,

Garrison Surgeon.

*To the Superintending Surgeon, Presidency Division and
Indian Navy.*

SIR,—I have the honour to acknowledge the receipt of your memorandum (No. 849), giving cover to Medical Board's letter (No. 1707) of the 13th July.

2. The Water Beds and Cushions (Hooper's Invalid) therein referred to have been used on several occasions in the Hospital, and with much benefit. Dr. Balingall has favoured me with the following memorandum:—

“Having used Hooper’s Mattresses, I am inclined to think very highly of their utility in cases where there is reason to apprehend the formation of Bed Sores. They appear to me to possess great advantages over the original Hydrostatic Beds. They are more portable, seem to be quite as efficient in equalizing the pressure, and where there is incontinence of urine or fæces can be much more easily kept dry and clean.”

I have the honour to be, &c.,
Jamsetjee Jejeebhoy Hospital,
17th July.

To JAMES BOYD,
Superintending Surgeon P. D. and I. N.
(True Copies.)

JOHN PEET,
Assistant Surgeon,
Acting Surgeon J. J. Hospital.

F. MANISTY,
Superintending Surgeon,
Secretary Medical Board.

(True Copies.)

T. MAUGHAN, Lieut. Col.,
Secretary to Government.

EXTRACT OF REPORT FROM THE HON. EAST INDIA COMPANY, CALCUTTA.

EAST INDIA HOUSE, 16th November.

The Secretary to the Court of Directors of the East India Company is desired to forward to Mr. Hooper the accompanying Copy of a Report from the Medical Board at Calcutta, on the Invalid Water Beds and Cushions supplied by Mr. Hooper.

No. 670.

From the MEDICAL BOARD to the MOST NOBLE THE MARQUIS OF DALHOUSIE, K.T., Governor-General of India in Council.

8th September.

MY LORD,—We have the honour, in reply to Colonel Birch’s letter (No. 426) of the 12th ultimo, to report most favourably on the supply of “Hooper’s Water Beds and Cushions.”

2. The results both at the General and at the Medical College Hospitals have been very satisfactory, as will appear from the Reports sent from those institutions, copies of which are appended.

We have, &c.,

G. G. SPILSBURY, Physician-General.
CHARLES RENNY, Surgeon-General.
J. B. CLAPPERTON, Inspector-General.

Fort William Medical Board Office,
8th September.

Copy of a Letter from J. R. BEDFORD, ESQ., 1st Assistant-Surgeon General Hospital, to J. B. CLAPPERTON, ESQ., Inspector-General of Hospitals, and Officiating Superintending Surgeon. Presidency, No. 91.

8th September.

SIR,—With reference to your letter (No. 143) dated the 22nd instant, I have the honour to state that the General Hospital has been in possession of Hooper's Water Beds and Cushions since the 8th February, 1854.

2. *The former and the latter have been in frequent use, and have been found invaluable in Fever, Paralysis, Spinal Affections, &c., and in cases where it was desirable to avoid pressure, such as Bed Sores, Lumbar Abscesses, Fractures, Gun-shot Wounds, &c.*

3. They have now passed through the hot season without their durability being impaired in the slightest degree, their texture being as water-tight and clean as on their first arrival.

4. It would be very desirable that the Hospitals should be furnished with the full-size and half-size Beds, together with the proper number of Waterproof Sheets to fit them.

I have, &c.,

J. R. BEDFORD,

1st Assistant-Surgeon, General Hospital.

J. B. CLAPPERTON,

Officiating Superintending Surgeon, Presidency.

Extract of a Letter from EDWARD GOODEVE, ESQ., Officiating Secretary, Medical College, to J. B. CLAPPERTON, ESQ., Officiating Superintending Surgeon. Presidency, No. 3324.

Fort William, 7th September.

SIR,—I have been directed by the Council of Medical College to forward to you the following statement regarding the usefulness of Hooper's Hydrostatic Mattresses.

1. Hooper's Water Beds, or Mattresses and Cushions.

The Surgeons of the Hospital who have had the chief opportunities of using them, report most favourably of their value for Bed-ridden cases. *They have been found to be productive of the greatest possible ease and comfort in cases of Wounds, Fractures, Spinal Affections, &c. For instance,—Ulcers that had formed previously to their use, had healed after the patient was supplied with one of them.*

With regard to their durability, it appears that some of the Beds have been in almost constant use for the last six months, and are still in good serviceable condition, not leaky, nor is there any appearance of rottenness of the material.

There seems to be no doubt of their value as articles of hospital equipment. The Physicians of the Hospital, as well as the Surgeons, report equally favourably of them.

2. Hooper's Waterproof Sheets and Waterproof Blankets for covering the Beds. These are reported as being also very useful in protecting the beds, and keeping them clean and dry.

I have, &c., E. GOODEVE, Officiating Secretary.
 (True Copy and Extract.) J. MACPHERSON,
 Surgeon, Officiating Secretary, Medical Board.
 (True Copies.) R. J. H. BIRCH, Colonel,
 Secretary to the Government of India in the Military Department.

EXTRACT OF REPORT FROM THE HON. EAST INDIA COMPANY,
 MADRAS.

The Secretary to the Court of Directors of the East India Company, with reference to the Reports from Bombay and Bengal, forwarded to Mr. Hooper on the 3rd and 16th of November last, now transmits the Report received from Madras, dated the 7th December, on his Invalid Water Beds and Cushions.

MILITARY LETTER FROM MADRAS,
 No. 172, 23rd December,
 EAST INDIA HOUSE,
 22nd February.

No. 322.

From the Secretary of the Medical Board to the Chief Secretary to Government.

Fort St. George, 7th Dec.

With reference to extract from Minutes of Consultation, Military Department No. 2086, of date 29th July last, conveying a communication from the Honourable the Court of Directors, relative to "Hooper's Invalid Water Beds, Mattresses, &c.," I have the honour, under instructions from the Medical Board, to acquaint you for the information of Government, that the several Articles—Sheeting, Cushions, Mattresses, Beds—have been in use at the General Hospital for the last four months. The Water Beds and Cushions have been highly appreciated by the patients; they have proved of great utility in the treatment of the *sick and bed-ridden*, especially in protracted cases; and, as remarked by the surgeon in charge of the General Hospital, *their use has expedited recovery in many instances.*

2. Appended is a tabular report of cases in which these Water Beds and Mattresses have been used, and the result, in the opinion of the Board, is so satisfactory, that they are induced to recommend *that every European hospital should be provided with them.* A certain number will be included in the indent now under preparation, dated 1st of January next.

3. It has been found that the articles have borne the climate perfectly.

Memorandum of WATER BEDS or MATTRESSES, PILLOWS or CUSHIONS, &c., distributed to the Patients in the General Hospital.

| Names of Patients. | Rank. | Date of Admission. | Diseases. | Description of Article. | No. | When Supplied. | Wards. | Result. |
|--------------------|----------------------|--------------------|------------------------|-------------------------|-----|----------------|--------|--|
| Robert Harvey | Pauper | 7th Aug. 1854 | Cholera Epid. | Cushion | 1 | 10th Aug. 1854 | M | Says it is very comfortable. |
| David Byrne | Priv. 2nd E.L.I. | 28th Feb. " | Bubo simp., bed-ridden | Ditto | 2 | 10th Aug. " | S { | Says it is comfortable; feels like two feather beds. |
| Michael Price | Priv. 1st M.F. | 27th Feb. " | Hepatitis, acute | Ditto | 1 | 11th Aug. " | M | Very comfortable. |
| Baboo Jaun | Nat. Seaman | 23rd June " | Fracture, comp. | Ditto | 1 | 11th Aug. " | S | Comfortable; very soft. |
| Permell | Pauper | 22nd April " | Hemiplegia, bed-ridden | Ditto | 1 | 14th Aug. " | M | Cushion very soft and good. |
| Surdar Khan | Priv. 16th Reg. N.I. | 25th Feb. " | Paralysis | Ditto | 1 | 14th Aug. " | M | Very soft and good. |
| Yagapen | Pauper | 12th Aug. " | Neuralgia | Ditto | 1 | 15th Aug. " | M | Likes it. |
| H.A. Kramer | Seaman | 27th July " | Enteritis | Ditto | 1 | 15th Aug. " | M | Does not want it. |
| J. Duncan | Pens. Sergeant | 13th Aug. " | Diarrhoea | Ditto | 1 | 21st Aug. " | M | Did not require it. |
| J. Douglas | Ditto | 12th Aug. " | Melancholia | Ditto | 1 | 22nd Aug. " | M | Uncomfortable.* |
| Narrainsawmy | Priv. 49th N.I. | 6th April " | Paralysis, Agit. | Ditto | 1 | 25th Aug. " | M | It feels comfortable & easy. |
| J. Duncan | Pens. Sergeant | 13th Aug. " | Diarrhoea | Ditto | 2 | 29th Aug. " | M | Very comfortable. |
| David Byrne | Priv. 2nd E.L.I. | 2nd Feb. " | Bubo simp., bed-ridden | Mattress | 1 | 29th Aug. " | S | Mattress very comfortable. |
| J. Duncan | Pens. Sergeant. | 13th Aug. " | Diarrhoea | Cushion | 2 | 2nd Sept. " | M | Likes it. |
| J. Duncan | Ditto | 13th Aug. " | Ditto | Mattress | 1 | 3rd Sept. " | M | Likes it much. |
| S. Douglas | Ditto | 12th Aug. " | Melancholia | Cushion | 1 | 6th Sept. " | M | Is indifferent about it.* |
| R. Wilson | Pauper | 4th Sept. " | Diarrhoea | Ditto | 1 | 12th Sept. " | M { | Is insane, but the cushion appears useful. |
| Narrainsawmy | Priv. 49th N.I. | 6th April " | Paralysis, Agit. | Ditto | 1 | 12th Sept. " | M | Likes it. |
| Ditto | Ditto | 6th April " | Ditto | Mattress | 1 | 12th Sept. " | M | Likes it. |
| John English | Priv. K.M. 43rd | " | Abscesses | Ditto | 1 | 8th Sept. " | M | Likes it much. |

| Names of Patients. | Rank. | Date of Admission. | Diseases. | Description of Article. | No. | When Supplied. | Wards. | Result. |
|--------------------|------------------|--------------------|-----------------|-------------------------|-----|----------------|--------|--|
| — Permall | Pauper | 22nd April 1854 | Hemiplegia | Mattress | 1 | 16th Aug. 1854 | M { | Does not want it, but feels too cold (see ante). |
| — Cundapen | Ditto | 5th Sept. | Drocurculus | Ditto | 1 | 27th Sept. | S | Mattress, very comfortable. |
| J. Aurnkell | Ditto | 10th Sept. | Hemiplegia | Small Mattress | 1 | 2nd Oct. | M | Very comfortable. |
| Annessee | Nat. Seaman | 7th Oct. | Fracture | Ditto | 1 | 8th Oct. | S | In a comatose state. |
| H. Haddock | Corporal | 29th Sept. | Dysent. acute | Mattress | 1 | 10th Oct. | M | Likes it well. |
| R. Burnell | Pauper | 28th Sept. | Syph. Consed. | Cushion | 1 | 11th Oct. | S | Does not want it. |
| C. Harris | Ditto | 7th Oct. | Pleura Pneum. | Mattress | 1 | 17th Oct. | M | Likes it well. |
| M. Bryan | Lance Corporal | 23rd Sept. | Carditis | Ditto | 1 | 23rd Oct. | M | Likes it well. |
| Syed Cawder | Naigue | 21st Oct. | Ulcer | Ditto | 1 | 23rd Oct. | S | Did not like the Mattress. |
| Mahomed Ayar | Gan. Lascar | 26th Oct. | Rheumat. Chr. | Cushion | 1 | 26th Oct. | M | Likes it well. |
| John Harty | E.I. Company | 21st Oct. | Ditto | Ditto | 1 | 2nd Nov. | M | Very comfortable. |
| Wm. Journal | Seaman | 1st Nov. | Scorbutus | Mattress | 1 | 1st Nov. | | Is quite satisfied with it. |
| Chinniah | Pauper | 13th July | Ascites | Cushion | 1 | 4th Nov. | M | Feels easy and comfortable. |
| G. Colchin | Rejected Recruit | 1st Nov. | Phth. Pul. Tub. | Ditto | 1 | 8th Nov. | M | Feels easy and comfortable. |
| Wm. McDuff | Seaman | 7th Nov. | Cholera | Mattress | 1 | 13th Nov. | M | Feels comfortable and easy. |
| G. Colchin | Rejected Recruit | 1st Nov. | Phth. Pul. Tub. | Ditto | 1 | 25th Nov. | M | Very comfortable. |

* This man Douglas was hypochondriacal and imbecile.

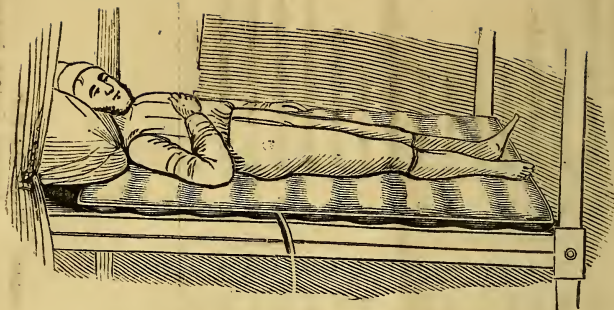
MADRAS GENERAL HOSPITAL,
30th November.

(True Copy.) H. MARSHALL, Lieut.-Colonel,
Deputy Secretary to Government.

(True Copy.) A. LORIMER,
Secretary, Medical Board.

(Signed) W. EVANS, M.D.
Surgeon, General Hospital.

Examined. J. N. FONSECA.



**MR. HOOPER'S INVALID WATER OR AIR MATTRESSES,
or Improved Hydrostatic Beds,**

to be used on an ordinary bedstead, the width of which should be sent. Free from smell, of a light colour, and affords as much softness to the body as when afloat upon water.

Any temperature may be used.—(See *Lancet*, Jan. 25, 1851).

For, Ulcerated Cartilages.

Typhus Fevers.

Sloughing Sores.

Spinal Affection.

Spasms.

Rheumatism.

Paralysis.

Lassitude.

Inflammation of the Bowels.

Hip Complaints.

Gun-shot Wounds.

Gout.

For, Fractures, Simple or Compound.

Fevers.

Dropsy.

Diseased Joints.

Consumptive Cases.

Coldness of the Body.

Cholera.

Cancer.

Bedsore.

Asthenic Gangrene.

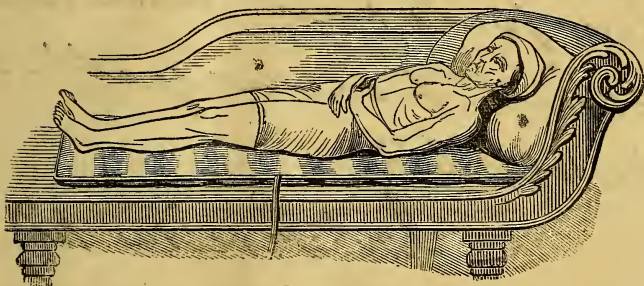
And all Invalids.

GUERNSEY, 28th Feb. 1852.

SIR,—I have much pleasure in replying to your letter of the 25th ult., requesting me to send you the result of my experience of your Water Mattresses. In the year 1850 I procured two of the largest size, one for the use of the hospital of this town of which I am surgeon, and one for a private patient, a lady afflicted with chronic rheumatism, by which almost every joint has become ankylosed. In the hospital, the Mattress has been much used, and has stood the wear and tear so well, that it really looks very nearly as good as new, and will for years, I believe, continue in use. The Mattress I procured for my private patient has been

almost constantly in use, and has not changed in the least; indeed, with care, these Mattresses, as far as I can see, might last for twenty years. My lady patient was much pleased that the water did not require to be changed. She may thank your Mattress for having escaped bed sores—which without it she would have had long since. These remarks as to the durability of the Mattresses, apply equally to the two Water Cushions I had from you. I cannot perceive any change whatever in them, indeed, I cannot too highly recommend the use of your Water Mattresses. In all cases of prolonged confinement to bed they are invaluable for the *prevention of bed sores*, or to give them a chance of healing if already formed, and for many reasons are much preferable to Arnott's bed. I shall always be happy to answer any queries you may wish to ask on the subject.

I am, Sir, your obedient servant,
THOMAS LUKIS MANSELL, M.D.



LIVERPOOL NORTHERN HOSPITAL.

The undersigned medical officers of the Liverpool Northern Hospital, have much pleasure in stating that the Water Pillows and Mattresses invented by Mr. Hooper of Pall-mall East, London, have been used in this institution with great advantage; several of the Pillows have been in constant wear for more than twelve months and are still in good condition, no leakage having occurred.

In those cases where "bed sores" have occurred or are likely to occur, we consider their use invaluable.

R. DUNDAS, M.D.,
March 1, 1852.

| | |
|-------------------|-------------------|
| HENRY STUBBS, | } Surgeons. |
| W. H. BAINBRIGGE, | |
| ELLIS JONES, | |
| W. B. WALL, | } House Surgeons. |
| J. D. WEAVER, | |

Autograph Letter from the late Dr. PEREIRA.

I have in several instances
employed Dr Hooper's water-
curtains & mattresses. They
have in all cases afforded
great relief & comfort and
have proved much more con-
venient & manageable than
the waterbed

Yours truly
Dr Pereira M.D.
Physician to the London
Feb. 27. 1852. Hospital.
Rushy Green.

DR. BUCKNILL ON ASTHENIC GANGRENE.

A period however will arrive in the progress of the disorder, when even the pressure of a soft bed can no longer be endured. The skin begins to put on a dusky red or livid appearance, and to prevent mortification new arrangements become imperative.

In this state of affairs the advantages of support upon water are alone capable of preventing gangrene.

The principle that "in a mass of fluid submitted to compression the whole is equally affected, and equally in all directions," was first made available for these purposes by Mr. Arnott in his Hydrostatic Bed. This admirable invention has afforded comfort to thousands; it is now, however, superseded by the more convenient Water Cushion invented and manufactured by Mr. Hooper of Pall-mall East.

His Water Cushions possess great advantages over the original Water Bed, in requiring no intermediate mattress, which obviates, to a certain extent, the benefits of the fluid support. They may be applied to the body where it is most needed—an arrangement advantageous, by promoting ventilation and permitting the perspiration to be carried off. The patient also lies more steadily on them than on the original Water Bed, from the water having less play.

It is well, in order to preserve cleanliness, to cover them with a piece of Hooper's Waterproof Sheeting, since the one can be cleansed, and hung in the air to sweeten, much more readily than the other.

With these arrangements, paralytic and other patients will generally descend to the last extreme of emaciation and feebleness, without the occurrence of asthenic sloughing.—(*From the Asylum Journal.*)

HAMPSTEAD, March 1, 1852.

I HAVE not the least hesitation in giving the results of my experience in favour of the *Water Mattresses and Cushions* invented by Mr. Hooper. In private practice I have used them: the patients have derived much advantage from their effects. There appears no reason to doubt their *durability*, as two have been in use at the Infirmary of the Hampstead Workhouse since May 1850.

The more they can be made use of among the sick and bed-ridden, the more will suffering humanity be relieved.

CHARLES F. J. LORD,
Member of the Royal College of Surgeons of England,
&c. &c. &c.

NORTH WALES ASYLUM, DENBIGH,
December 12th, 1854.

SIR,—I shall be obliged to you to send me one of your full-sized Water Mattresses as soon as possible. I want it for a patient who is paralyzed from the navel down, and who has a cancer extending from both breasts to the back. I laid for eighteen months upon one of your admirable Mattresses, and it was of more comfort to me than I can possibly express: my case is only one amongst very many in which your Hydrostatic Beds and Mattresses have proved blessings. Let it be sent by railway to Rhyl, addressed to

Your obedient Servant,

R. LLOYD WILLIAMS, M.D.,
Denbigh, N. Wales.

To Mr. HOOPER, Operative Chemist,
7, Pall Mall East.

P.S.—I hope our army in the East is amply supplied with your Cushions and Mattresses. No ambulance carriage ought to be without them. I can conceive no appliance so calculated to take off the jarring and jolting over bad roads as your Elastic Mattress. Every officer should be supplied with one of them. They are so portable and light that many a poor fellow who has been accustomed to the softest bed at home may obtain a bed which no down can equal, with the additional recommendation of being waterproof. Every hospital should, in my humble opinion, be liberally supplied with appliances which can alleviate the sufferings of the poor fellows who have so nobly shed their blood for their Queen and country.

Extract from the "Lancet," 16th December, 1854.

COMFORTS FOR THE WOUNDED IN THE CRIMEA.

Our readers will be glad to learn that Mr. Hooper, of Pall Mall East, had the honour of receiving an order on Wednesday to submit his Water Cushions and Mattresses to the Queen and Prince Albert, and that Her Majesty was pleased to make a selection of different sizes, to be sent to Miss Nightingale to relieve the sufferings of our wounded soldiers who have so nobly shed their blood for their Queen and country. These excellent appliances have been in general use in Her Majesty's Navy Hospitals, Infirmaries, Asylums, and Unions for some time, as well as by the Honourable East India Company, the Emigrant Ships, &c.

We have frequently had the satisfaction of reporting favourably of their usefulness in cases of Bed Sores, and of their great comfort to suffering humanity.

11, UPPER WOBURN PLACE, TAVISTOCK SQUARE,
Wednesday, December 24th, 1854.

DEAR SIR,—In reference to the India-rubber Water-Bed you so kindly sent me, I hardly know how sufficiently to express on behalf of myself and patients the great comfort and benefit derived from its use, and the thankfulness entertained for your generous act.

Upon both patients I performed the Cæsarian operation, in one of whom the emaciation, softening of the bones, and decrepitude was so extreme, that, notwithstanding she was almost constantly recumbent for many weeks on your bed, not the slightest bed-sore resulted,—the most severe test to which your happy invention could be possibly subjected. In fact, it would be utterly impossible to imagine any appliance more admirably calculated to fulfil its object, especially to bed-ridden invalids, than the Water-Bed you have so ingeniously constructed. Its portability and extreme cleanliness renders it far preferable to the cumbersome water-bed formerly in use. Once more accept my warmest thanks for your act of charity, and for the valuable and, I may add, indispensable aid rendered,

Ever faithfully yours,

To Mr. HOOPER, Operative Chemist,
7, Pall Mall East.

R. GREENHALGH.

Extract of MR. CÆSAR HAWKINS'S Clinical Lecture at St. George's Hospital, published in the "Lancet."

ON THE USE OF MR. HOOPER'S WATER PILLOWS.

To the Editor of the "Lancet."

SIR,—Mr. Hooper having subjected himself to considerable expense, in the year 1846, in endeavouring, at my suggestion, to make a safe and durable Water Cushion for various purposes, I feel that I ought not to refrain from stating that he then succeeded to my satisfaction; that since that time I have used it with great benefit in private, and have had several in use at St. George's Hospital, for nearly two years, by permission of the governors.

Having thus done only justice to Mr. Hooper's zeal, I cannot perhaps better recommend the Water Cushion which he made for me, to the notice of the profession, than by repeating the substance of some remarks which I made to the students of St. George's Hospital, in May last, in part of a clinical lecture on the case of a boy with disease of the cervical spine, who had been lying on one of these cushions from the time of his admission, with large sloughing sores on the sacrum and trochanter, from pressure on the spinal

marrow. I remarked, that those who were most sensible of the great advantage and comfort of Dr. Neil Arnott's hydrostatic bed, were also best acquainted with the circumstance which *prevented* its employment in some of the very cases in which it was most required, independent of the expense of frequent renewal of the India-rubber sheeting, which was easily injured by very trivial causes; that in the case of this boy, and of all cases of disease about the cervical region, *the bed was contra-indicated*, because the least pressure on any part of the bed was liable to alter the position of the body, while the head remained quiet on the pillow, or *vice versâ*, and that *every movement so effected made the diseased cervical region the centre of motion*, ALTHOUGH THE VERY PART IN WHICH REST WAS MOST DESIRED; that for exactly the same reason the water-bed could not be used in fractures of the thigh, either simple or compound; nor even fractures of the leg, unless they would bear being firmly bound up; nor in many of the more painful cases of ulcerated cartilages of the hip and knee, although in so many of these cases, weak and exhausted, nervous and fat people were very liable to bed-sores from lying in one posture. I said, also, that very stout people could seldom employ the water-bed, from their not retaining the level posture; and that rheumatic persons also frequently found they could not lie on it, without a return of their complaint, from the dampness and coldness they often experienced. I said that, on these accounts, I had long wished for some better substitute for the water-bed than the soft cushions of wool and hair, covered with silk, and the air-pillows, of various forms, the hardness of the compressed air in the latter, and the necessity of frequent adjustment with any of them, frequently leading to the very evil they were designed to obviate; that I had often tried common Mackintosh pillows of different shapes filled with water instead of air, but that the pressure of the trunk of the body, assisted by the effect of warmth, made it impossible to use them without their soon leaking a little, with constant fear of deluging the bed, and the floor and ceiling below, by sudden bursting of the cushion.

I remarked, further, that having received, nearly three years ago, a circular from Mr. Hooper, of Pall Mall East, concerning what Dr. James Arnott had called his current apparatus, I had gone to his house to look at it, but that I had found it useless for my purpose, being of ordinary Mackintosh material, however well it might do to lay over inflamed parts, in the manner proposed to him by Dr. Arnott; that Mr. Hooper, after many trials of different materials, which were all unsafe for use, had one made of his prepared India-rubber, without any cloth whatever, which had alone answered

for what I wanted, and that I had tried it for some time, and then applied to the Board to have some made for the Hospital, where they had been used constantly for some time, as (the students) saw in the boy whose case I was speaking of.

I added, that these Water Cushions were not only useful, as a most valuable substitute for the water-bed, where the sacrum and hips were threatened with sloughing, or in which sloughing had actually taken place, but that they were often employed where the scapulæ, or spine, or heels, were in danger, when the patient was lying down or reclining; that he might also sit on it when the os coccygis and ischia required defence in this posture; and that in injuries, such as fractures or diseased joints, the arm or the leg was often laid lengthwise, with much advantage, on the same Water Pillow, to save the elbow or the heel from the effects of pressure, *the water diffusing it so equally over a large surface*; and moreover, that, with such a cushion, *warmth or cold* could also be used, *both of which could be done while the cushion lay under the patient*, beneath his sheet or blanket, or next to his person. I explained, also, that the cushion was only to be *partly filled* with water, Mr. Hooper having constructed a very convenient stop-cock attached to a tube, for the purpose of filling it and changing the temperature. I have little to add to what I thus stated a few months ago, except that for the purpose of bearing continued pressure under the body, I am convinced that those constructed by Mr. Hooper, *without any cloth whatever, can alone be relied on as safe and durable*.

I am, Sir, your obedient Servant,

CÆSAR HAWKINS.

Grosvenor Street, October 22, 1849.

WARLEY BARRACKS, 26 Feb.

I have had Mr. Hooper's India Rubber water and air Beds and Cushions in use in the Hospital of the Honourable East India Company's Depôt for above two years, having been brought to my notice by Mr. Cæsar Hawkins's paper on "the usefulness of Mr. Hooper's Cushions."

From my experience of them I can testify, with perfect truth, to the character given of them by Mr. Hawkins, especially in *gun-shot wounds*, and in cases of *diseased bones*.

Some waterproof sheets of his manufacture became much soiled

by being placed under them, were, in a short time after they were removed, completely cleaned and made fit again for use, by being washed with soap and water, and wiped dry. I do not see that with the two years' wear they are in the least injured or worn, but as serviceable as at first,

(Signed)

A. R. JACKSON, M.D.

Staff Surgeon 1st class, Surgeon E. I. C. Dépôt.

To the Editor of the "Provincial Medical and Surgical Journal."

Sir,—I take the liberty of directing your attention to the valuable inventions of Mr. Hooper. That gentleman, after much attention to the subject, has at length succeeded in rendering the Waterproof India Rubber free from smell, and capable of containing fluid of any temperature, between the freezing and boiling points, so that the Cushions and Mattresses manufactured by him are now unobjectionable. These Cushions, when partly filled with water or air, are in every way suited to the treatment of Bed Sores. Having had experience of their use, I can recommend them with confidence to the profession. It has long been a desideratum to give a more portable form to Arnott's principle; and not only has this been effected by the ingenuity of Mr. Hooper, but it is probable that the original form of the Water Bed may give way to his Water Mattress, which simply requires to be placed on an ordinary Bedstead,

I am, Sir, your obedient Servant,

T. G. HAKE, M.D.

Physician to the Suffolk General Hospital.

Bury St. Edmund's, Nov. 1.

To the Editor of the "Medical Times."

Sir,—I consider that any invention for the alleviation of human suffering, ought to be chronicled in your much read valuable pages. A patient of mine, about twelve days ago, in a fit of mania, put both legs into the fire, and was not found until he had burnt them badly, (this was in the country, before he was placed under my care.) There are several large sloughs, slowly separating the tendo achillis, bare in one leg for several inches, and you may suppose, intense pain and suffering, only relieved by large doses of morphia.

Having found one of Hooper's Water Cushions the means of curing a large slough in the nates of an old lady of seventy-three, who was paralyzed a short time back, and who has now nearly recovered her side, I thought I would try the Cushion under the poor maniac's sloughing legs, which could not be kept lying long in one position, without great agony, the heat and hardness of the bed con-

ducing, no doubt, to this. I need hardly say that I was quite delighted with the result, my patient exclaiming, "This is, indeed, comfortable,—my legs are floating!"

A great advantage connected with Hooper's Cushions is, that you may pour the water in at any temperature, so that you do not chill where the vitality is low. Again, iced water can be applied in affections of the brain, or anywhere you may require cold. The signal benefit my patient has received, has induced me to lay before you my opinion for the information of those of the profession who may not have made trial of Mr. Hooper's invention.

I am, &c. &c.,

WM. THORN, M.D.

FROM DR. ILES.

Having in several instances had occasion to recommend Mr. Hooper's Water Cushions, I think it only due to him to state the great comfort and relief experienced by the patients from their use; and I consider they cannot be too extensively employed both in Private Practice and in all Public Institutions.

ALBERT ILES, M.D.,

Fairford Lunatic Asylum.

Cirencester, March 31.

The following statement having been made by Dr. Wilson, (*Senior Physician at St. George's Hospital*), and others, before Lord John Russell and Sir George Grey, Mr. Hooper has no doubt that the Governors and Guardians of all hospitals, infirmaries, asylums, district and parochial unions, will see the importance of such Institutions being provided with his cushions and mattresses, or improved Hydrostatic Beds.

Extract from "The Institute," and "Lancet."

"On Friday week a deputation from the Convention of the Poor Law Medical Officers had an interview with Lord John Russell, at which Sir George Grey was present, with reference to the evils of the present system of medical relief to the sick poor.

"The deputation (which was accompanied by General Sir De Lacy

Evans, M.P. ; Jacob Bell, Esq., M.P. ; Dr. Wilson, Senior Physician of St. George's Hospital ; Thomas Hunt, Esq., representative of the Provincial Medical Association ; James Stedman, Esq., Vice President of the National Institute of Medicine, Surgery, and Midwifery), Dr. Hodgkin, the Chairman of the Committee ; Dr. Bainbridge, Messrs. W. Lobb, J. Liddle, E. White, W. Cantrell, of Wirksworth, Derby ; Peter Martin, Reigate ; E. Boulger, Bletchingly ; G. Ross, J. T. Mitchell ; Dr. Barnett, and Charles F. J. Lord, the Honorary Secretary.

"The memorial was dilated upon by Mr. Boulger, Mr. Cantrell, Mr. Liddle, Mr. Stedman, J. Bell, Esq., M.P.. Dr. Wilson, and Sir De Lacy Evans, M.P.

"Dr. J. Arthur Wilson said, he was pained and surprised that nearly three thousand gentleman of education, the physicians of the poor, for they were called on to conduct the most important cases, both in medicine and surgery, should be subjected to such treatment as described in the memorial. He had observed, in a periodical of last week, two cases which struck him as shocking in a country like ours. At Bury, an inquest had been held upon a poor man, who had fractured his thigh, and who died in consequence of bed-sores, *the guardians having obstinately refused to supply for his use, as requested by the medical officer, one of Hooper's Water Cushions*. At the inquest the guardians attempted to transfer the blame to the medical officer, by alleging the sufferer died from improper medical treatment ; the jury, however, by their verdict, fixed the blame of neglect and cruelty on the Board of Guardians, who ought to have supplied every appliance considered necessary by competent medical authority. After mentioning an analogous case at Southampton, Dr. Wilson went on to say, that such examples were unfortunately too common. As Physician to an Hospital, he knew the poor, and he knew that, in sickness especially, it was unwise and ungenerous to afford them medical aid in a way which might not be agreeable to their sympathies, rendered keen under pain and affliction.

"The Honourable Board of Poor Law Commissioners, have recommended to Mr. Hooper the course to adopt to bring his Cushions and Mattresses, or Beds, before the notice of the Board of Guardians of the various Unions throughout Great Britain and Ireland.

"Her Majesty's Emigration Commissioners have also issued an order for each Emigrant ship to be provided with them, as well as the Waterproof Sheets, in pursuance of the provisions of the Merchant Seaman's Act recently passed."



Form of Cushion for general purposes.

MR. HOOPER'S INVALID WATER OR AIR CUSHIONS,

to be used at any temperature, free from smell, elastic, and as soft as afloat upon water (over the movements of which the patient has perfect control), for Bed-sores, whether threatened with sloughing, or in which sloughing has actually taken place, gunshot wounds, fractures, local relief, &c.

Directions for Use.

[Whether lying, sitting, reclining, or obtaining ease for any part of the body.]

The Cushion should be about ONE THIRD filled with water or air before placed under the Invalid. If more water be required after the cushion is under the patient, it is only necessary to hold the tube

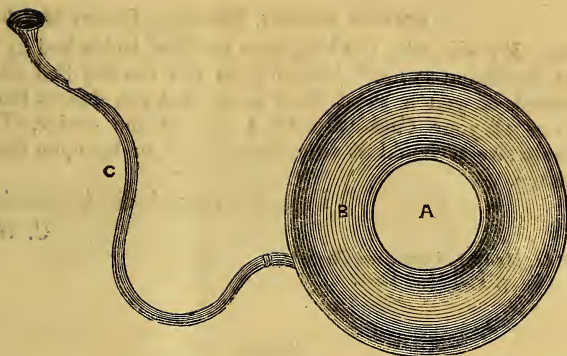
PERPENDICULARLY, and pour it in, as illustrated in the foregoing cut (the Cushion remaining underneath the patient); on the contrary, if there be too much, a portion may be taken out by dropping the tube into a vessel to receive it; but in case air is used it must be blown in. The greatest comfort is obtained when the sides of the Cushion are about AN INCH AND-A-HALF APART, immediately underneath the pressure; of this the patient is the best judge. The temperature can also be regulated in a similar way—viz., by letting out some of the water and putting in hot or cold.



Horse-Shoe Shaped Cushion.

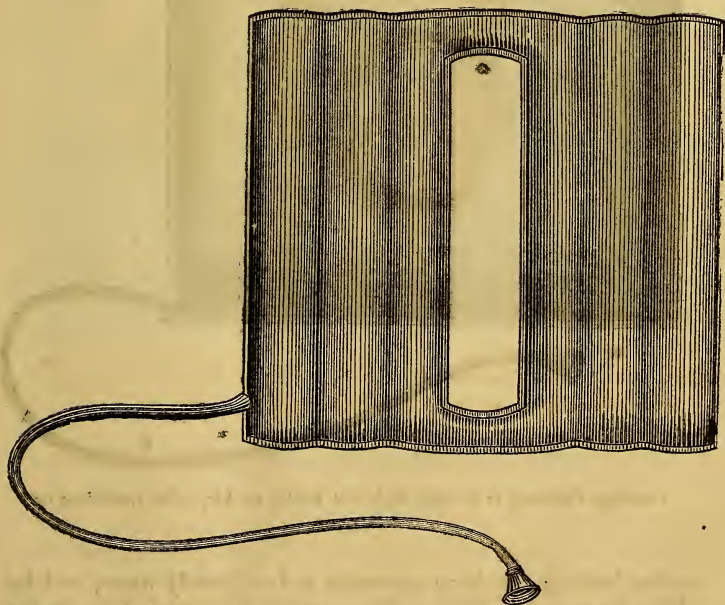
Especially adapted as a preventive to Sloughing over the Sacrum, or when Urinals are worn in bed.

The Editor of the *Lancet* expressed in his journal the horrible scenes he frequently witnessed (as Coroner for Middlesex) from sloughing sores, and expressed a hope that now suitable elastic Cushions can be obtained from Mr. Hooper, the public would avail themselves of the benefit and comfort to be derived from them, as in nearly all cases bed-sores may be prevented if one of Hooper's Cushions is used.



Circular Cushion for sitting on.

This form may be had with or without a hole in the centre.



Form of Elastic Cushion, recommended by Dr. Locock in affection and diseases of the spine, os coccygis, &c.

BEAFORD RECTORY, CREDITON, DEVON, 29 Feb. 1851.

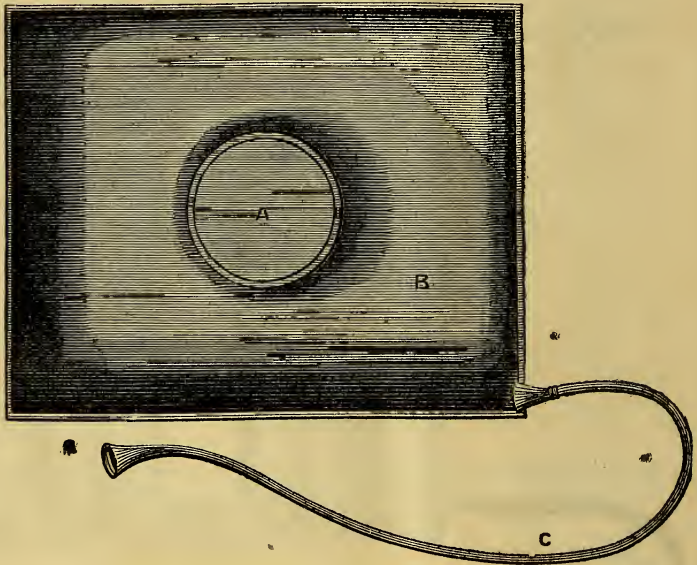
SIR,—My wife, who has long been confined to her bed by Typhus Fever, has found so much benefit from the Invalid Bed which was purchased of you a short time since, that she desires likewise to have one of your *Cushions* with a hole in the centre, of such a moderate size as would fit an ordinary chair, or lay upon the seat of a carriage.

I am, Sir, your obedient servant,

C. WOOD.

To Mr. Hooper, Operative Chemist,
7, Pall Mall East.

2 Sizes.



Carriage Cushion, to be used with Hot Water or Air, when travelling or otherwise.

For keeping the body agreeably and uniformly warm, and for giving immediate relief in Rheumatism, Lumbago, Pain in the Loins, Stomach, and Coldness of the Extremities.



Cushion for general purposes, in case of injury, or operation, fracture of the ribs, scapula, shoulder, &c.

This is the form of Cushion supplied to the late Queen Dowager and to the late Sir Robert Peel.

Extract from the "Lancet," January 19th, 1856.

ST. THOMAS'S HOSPITAL.

"Compound Comminuted Fracture of the Right Leg, with bad Fracture of the Left Leg also; Double Amputation; Secondary Hæmorrhage; Recovery."

Mr. Le Gros Clark, in detailing this dreadful case, states:—

December 12.—"Patient going on satisfactorily. He has been ordered the quinine mixture of the hospital, and a dose of morphia at night. HE DERIVES GREAT COMFORT FROM ONE OF HOOPER'S PILLOWS. His pulse and appearance are good."

HOOPER'S
INVALID WATER-BEDS AND CUSHIONS.

INDIAN REPORTS.

Mr. Hooper's valuable beds and cushions having been extensively used in India, reports from the three Presidencies,—i.e., Calcutta, Madras, and Bombay, on the results, have been transmitted to us.

From Calcutta, the report is from Mr. J. B. Bedford, Assistant-Surgeon to the General Hospital. He states that the Water-Beds and Cushions "have been in frequent use, and have been found invaluable in cases where it was desirable to avoid pressure, such as bed-sores, &c." In a letter from Mr. E. Goodeve, Officiating Secretary to the Medical College, to Mr. J. B. Clapperton, Superintending-Surgeon, Mr. Goodeve says that both the surgeons and physicians of the Medical College Hospital have "reported most favourably of the value of the Beds and Cushions in bedridden cases."

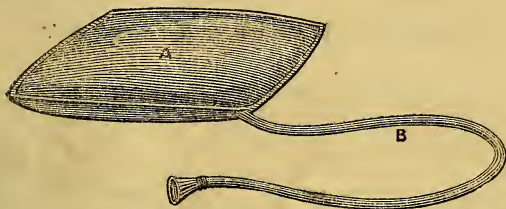
The Secretary of the Medical Board of Madras, in a communication to the Chief Secretary of Government, states that the Beds and Mattresses "have been in use for the last four months. They have been highly appreciated by the patients, have proved of great utility in the treatment of the sick, especially in protracted cases, and, as remarked by the Surgeon in charge of the General Hospital, *their use has expedited recovery in many instances.*" Appended to the statement is a tabular report of thirty-six cases of various injuries and diseases, in which the patients derived the greatest comfort and benefit from these inventions.

The Superintending-Surgeon of Bombay thus writes:—"The Cushions have been used on several occasions in the hospital, with much benefit."

The reports agree in strongly recommending the use of the Beds and Cushions in various Hospitals in India, and in favour of their not being injured by the climate.—*Lancet*, January 5th, 1856.

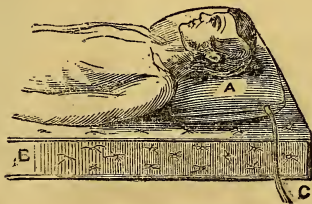
We have lately inspected Mr. Hooper's Water Cushions and Mattresses, or Improved Hydrostatic Beds, which are intended to supersede the use of the original water-beds for the sick. Their advantages consist in the facts that they are composed of elastic caoutchouc instead of the inelastic material employed in the water-beds; that they are more portable than the latter, as they are not accompanied by any bed-frame; that in certain cases of local injury they exercise a more uniform and unvarying pressure upon the affected part, and that, being of various sizes and shapes, they are capable of local application to diseased parts or organs. One very ingenious form of these Cushions, adapted to serious accidents and injuries of the spine, is passed under the back in a collapsed condition, and is filled with water by pouring the fluid into the cushion through a long flexible pipe, on the principle of hydrostatic pressure. This caoutchouc is adapted to various other purposes, as for incontinence of urine, &c.; and, as it bears a temperature of 300 degrees Fahrenheit, it may be employed in cases where dry warmth is found to be useful. Mr. Hooper has received flattering testimonials

as to the utility of these appliances from various influential quarters, and also from the Medical Department of the East India Company's Service; and we understand that large numbers of the Beds and Cushions have been sent to the invalid soldiers at the seat of war. Without in any way detracting from the merits of the water-bed, we are bound to state that Mr. Hooper's Cushions are available in certain cases where the water-bed would be inapplicable, and while carrying out the principle involved in the latter, are adapted to a much greater variety of circumstances, and are decidedly superior in certain cases of local disease or injury.—*Medical Times and Gazette.*



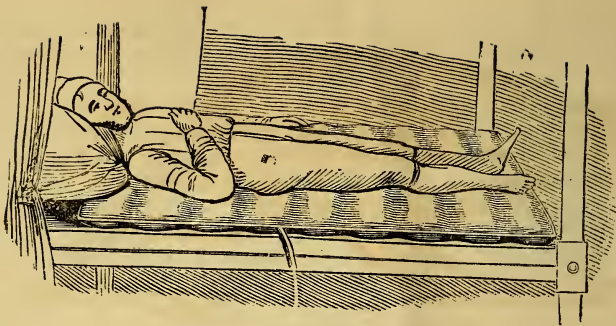
Cushion for affording relief to the ankle, heel, knee, or elbow, also as chest or feet warmer for giving any amount of heat.

In cases of approaching Collapse, Suspended Animation, and other causes of apparent sinking, boiling water put into one of these Cushions, and applied as hot as possible, will often restore circulation.

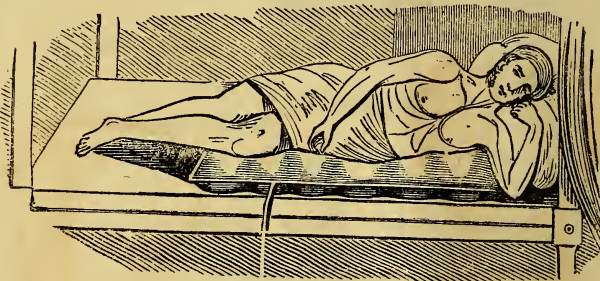


Cushion for application of Cold in inflammatory affections of the head (water on the brain, fits, &c.)

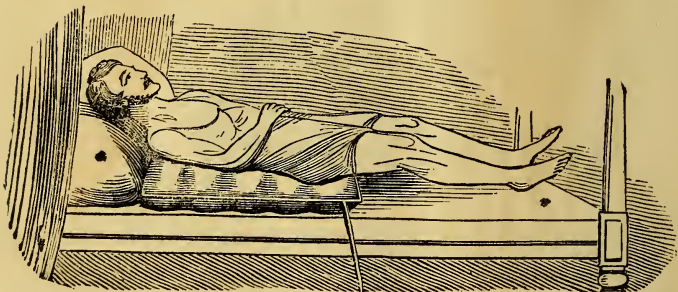
Any temperature may be used, even below that of zero, which can be regulated with ease. The head may be also raised and lowered at will, by simply inflating the cushion with air, or pouring in water; in either case the head may remain quiet on the cushion.



Full-length Invalid Mattress, or Hydrostatic Bed.

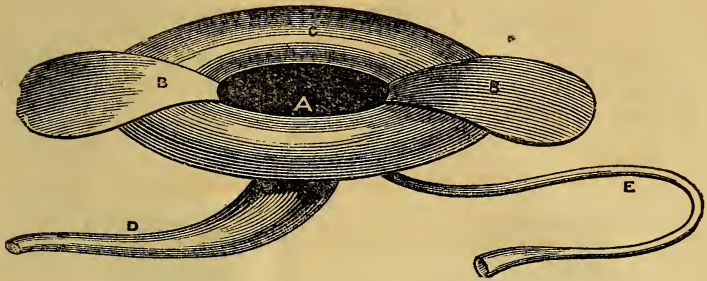


Invalid Bed, or Mattress of intermediate size.

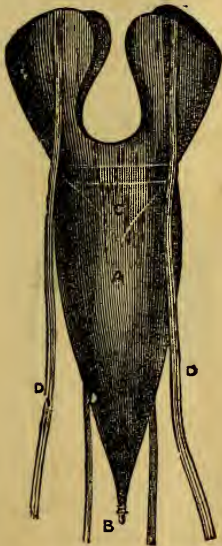


Invalid Bed, or Mattress of smallest size.

**The Hydrostatic Beds, or Mattresses and Cushions, are Stamped
with Mr. Hooper's Name and Address.**



Improved Elastic Bed-Pan, or receptacle.



Female Urinal.

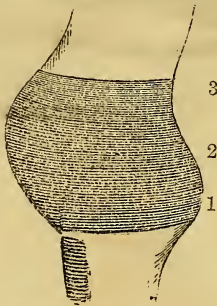


Male Urinal.

Hooper's Urinals, with valve to prevent leakage, adapted for Invalids, or Railway Travellers; for Sitting, Reclining, or Walking; they are not affected by boiling water, and therefore may be easily kept clean.

HOOPER'S SPIRAL SUPPORTERS.

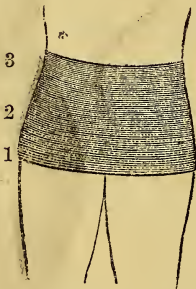
The figures 1, 2, 3, &c. shew the points at which the measures should be taken in circumference; it is also desirable that the length required should be stated.



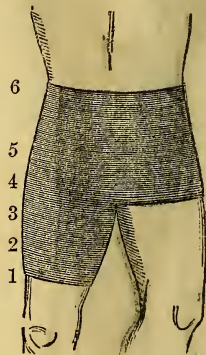
Abdominal Supporter, side view.



Spinal Supporter, or Stays.



Abdominal Supporter.



Abdominal Supporter and Thigh-piece.

Mr. HOOPER begs to invite attention to the above important addition to the appliances of surgery. His attention has been forcibly directed to the inefficiency of the ordinary modes of producing firm but graduated comfortable compression, in the cases indicating its necessity; and after much thought and labour, the above desideratum has been perfectly attained, by combining, in the formation of the supporters, four original superior patents—viz., 1st. In the manufacture of the material; 2nd. In the preparing of the thread; 3rd. In the weaving of webbing; and 4th. In the accurate adjustment of the bandage.

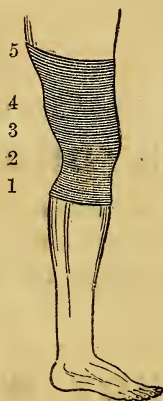
These Bandages are of very easy application, being readily drawn on over the parts requiring their use; they can be worn with great comfort; and they also possess another essential advantage hitherto unattainable, they can be effectually washed in hot or cold water, in the same way as ordinary garments.

Moreover, having no seams, they are unique in their giving pressure circular, continuous, and permanent, whereas all other inventions with seams have thereby essentially failed.

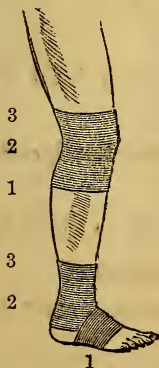
References of their value and utility can be given to most of the eminent physicians and surgeons, by whom the inventions have been recommended.



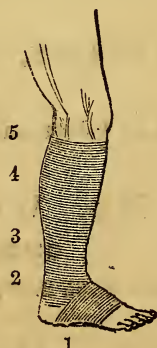
Stocking above the knee.



Knee and Thigh-piece.



Knee Cap and Ankle Sock.



Stocking below the knee.

WATERPROOF SHEETING,

For protecting Bedding from Sloughing Sores, Incontinence of Urine, Hæmorrhage, &c.

Mr. HOOPER has succeeded in manufacturing Waterproof Sheetting at a great reduction in price. It is soft and inodorous, and not acted on by Urine, Heat or Cold, Acids or Alkalis, and may be Washed as Family Linen.

HOOPER'S

NEWLY INVENTED

HYDROSTATIC ENEMA.

This beautifully simple and inexpensive Instrument will be found most effective and portable.

It may also be used as a Douche.

HOT WATER BOTTLES,

Of Thin Elastic Material, for applying Dry Fomentation.

RECOMMENDED BY

DR. FERGUSON, MR. WHITEHOUSE, AND OTHERS.

Orders by Telegraph, or otherwise, immediately attended to.

MR. WILLIAM HOOPER,

OPERATIVE CHEMIST,

7, PALL MALL EAST, AND 55, GROSVENOR STREET, LONDON.

London : Savill and Edwards, Printers, Chandos Street, Covent Garden.

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